

Quarterly Groundwater Monitoring Report First Quarter 2005

7-Eleven Store #23233
8499 Gerber Road
Sacramento, California

SECOR Project No.: 77EL.23233.05

Submitted by:
SECOR International Incorporated
3017 Kilgore Road, Suite 100
Rancho Cordova, CA 95670
916-861-0400

Prepared on behalf of:
7-Eleven, Inc.
Mr. Ken Hilliard
P.O. Box 711
Dallas, TX 75221-0711

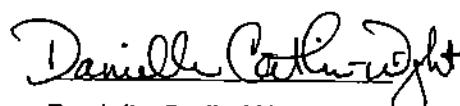
March 28, 2005

Prepared by:



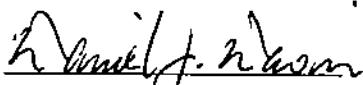
Colin Ryan
Staff Geologist

Reviewed By:

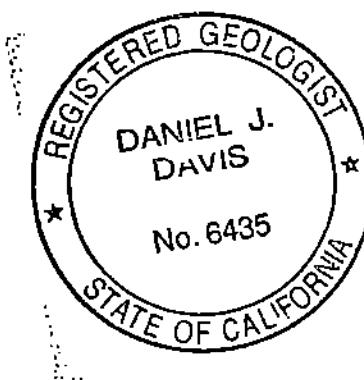


Danielle Catlin-Wright
Project Scientist

Reviewed by:



Daniel J. Davis, R.G.
Senior Geologist



DATE: March 28, 2005

S E C O R**7-ELEVEN, INC. QUARTERLY REPORT**

Store Number:	7-Eleven Store #23233
Site Address:	8499 Gerber Road, Sacramento, CA
7-Eleven Contact:	Mr. Ken Hilliard
Consulting Company:	SECOR International, Inc. – Mr. Jaff Auchterlonie
SECOR Project No.:	77EL.23233.05
Primary Agency:	Sacramento County Environmental Management Department (SCEMD)

WORK PERFORMED THIS QUARTER [First – 2005]

1. Conducted groundwater monitoring and sampling on January 14, 2005.
2. Prepared quarterly groundwater sampling and status report.
3. Submitted site closure request to SCEMD.

WORK PROPOSED FOR NEXT QUARTER [Second – 2005]

1. Perform quarterly groundwater monitoring and sampling.
2. Prepare status report.

DISCUSSION

The site is an active 7-Eleven convenience store and retail gasoline fueling facility with three 10,000-gallon gasoline underground storage tank (UST) (Figures 1 and 2). The current groundwater monitoring and sampling data are summarized in Table 1, and presented on Figures 2 and 3. Historical groundwater monitoring and sampling results are summarized in Table 2. The well completion details are summarized in Table 3.

Current Site Information

Current Phase of Project:	Groundwater Monitoring
Frequency of Monitoring and Sampling:	Quarterly, Three wells- MW-1 through MW-3
Are Liquid Phase Hydrocarbons Present On-site:	No
Water Supply Wells within a 2,000-foot radius and their Respective Direction:	Two wells located approx. 1,850 ft to the northwest
Current Remediation Techniques:	None
Permits for Discharge:	None
Historic Range in Depth to Water, Q1-04 to Q1-05	MW-1, 74.62 to 76.24 feet bgs
<u>Current Quarter Monitoring Data</u>	(See Figure 2 and Table 1)
Wells Monitored and Sampled:	Three wells- MW-1 through MW-3
Dissolved Oxygen Concentrations Measured In:	Three wells- MW-1 through MW-3
Depth to Groundwater (DTW)	73.63 to 74.62 ft bgs
Average Change in Groundwater Elevation Since Last Event:	1.61 foot increase

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7-Eleven Store #23233
Quarterly Groundwater Monitoring Report (1Q2005)
March 28, 2005
Page 2

Groundwater Flow Direction and Gradient:

Northeast @ 0.0006 foot per foot
(Figure 2)

Current Quarter Analytical Data

Maximum TPHg Concentrations

(See Figure 3 and Table 1)

Maximum Benzene Concentrations

Not Detected, <50 µg/L

Maximum MtBE Concentrations

Not Detected, <0.50 µg/L

Maximum TBA Concentrations

Not Detected, <0.50 µg/L

Not Detected, <5.0 µg/L

BACKGROUND

On March 8, 1996, soil samples were collected beneath the dispensers and along product lines at the site during a fuel line upgrade work. The highest concentration of total petroleum hydrocarbons as gasoline (TPHg), 1,100 milligrams per kilogram (mg/kg) was detected in soil sample D-3-2.5' collected under the southwestern dispenser. Concentrations of methyl-tert-butyl ether (MtBE) ranged from 0.054 mg/kg to 0.09 mg/kg; benzene was not detected in any dispenser or product line soil samples (Groundwater Technology Inc, 1996).

On March 12 and 13, 1996, additional soil samples were collected within the canopy foundation footings to define the extent of petroleum hydrocarbon contamination beneath the dispensers. The highest concentrations of benzene and TPHg were detected in soil sample D-3C-6' at 0.091 mg/kg and 110 mg/kg, respectively. MtBE was not detected above laboratory reporting limits in any canopy footing soil samples (GTI, 1996).

On March 15, 1996, GTI submitted an Unauthorized Release Report to the SCEMD. On March 21, 1996, Cris Hamilton with the SCEMD confirmed via phone that the vertical extent of contamination was adequately defined and no further action would be necessary at the site.

On July 17, 2003, SECOR collected soil samples beneath the two fuel dispensers during fuel system upgrade work. Concentrations of MtBE were detected at 0.18 mg/kg (D1-3.0') and 0.053 mg/kg (D2-2.5'). Tert-amyl-methyl ether (TAME) was reported at a concentration of 0.0066 mg/kg in soil sample D1-3.0'. Soil samples did not contain concentrations of TPHg, benzene, toluene, ethylbenzene and xylenes (BTEX), diisopropyl ether (DIPE), ethyl-tert-butyl ether (EtBE), tert-butyl alcohol (TBA) or 1,2-dichloroethane (1,2 DCA) above laboratory reporting limits.

Based on the presence of reportable concentrations of petroleum hydrocarbons in the soil samples collected beneath the dispensers, SCEMD filed an Unauthorized Release Form on October 30, 2003.

SECOR submitted a Site Assessment Report with the SCEMD on June 23, 2004, requesting site closure due to the absence of hydrocarbons detected above reporting limits since monitoring was initiated. The SCEMD conditionally approved site closure in a letter

S E C O R

7-Eleven Store #23233
Quarterly Groundwater Monitoring Report (1Q2005)
March 28, 2005
Page 3

dated August 26, 2004, requesting SECOR submit a formal site closure package. SECOR submitted a formal *Site Closure Request*, to the SCEMD in a letter dated March 16, 2005.

MONITORING AND SAMPLING PROCEDURES

The depth to water was measured to within 0.01 feet bgs in monitoring wells MW-1 through MW-3 from the top of casing (TOC) using a water level indicator. Dissolved oxygen concentrations were also measured in the wells using a YSI Model 550A dissolved oxygen meter equipped with a down hole sensor.

Well purging and sampling equipment was thoroughly cleaned prior to purging and sampling the wells. The sampling procedure for the wells included measuring the water level and checking for the presence of liquid-phase hydrocarbons (LPH), using either an electronic indicator and a clear Teflon® bailer or an oil-water interface probe. Wells not containing LPH were purged of approximately three casing volumes of water (or to dryness) using a submersible pump or bailer. The equipment and purging methods used for the current sampling event are noted on the field data sheets in Attachment A. During purging, temperature, pH, and electrical conductivity were monitored. After purging, the water level was allowed to recover to 80% of the original level prior to collection of the water sample. Groundwater samples were collected using a disposable Teflon® bailer, placed into appropriate Environmental Protection Agency (EPA) approved containers, labeled, logged onto chain-of-custody documents, and transported on ice to a California state-certified laboratory. Copies of the field notes are presented in Attachment A.

GROUNDWATER SAMPLE ANALYSES AND RESULTS

The groundwater samples collected from MW-1 through MW-3 were analyzed for the presence of TPHg, BTEX, MtBE, TBA, DIPE, EtBE, TAME, and 1,2-DCA by EPA Method 8260B. The certified laboratory analytical report and chain-of-custody documentation are presented as Attachment B.

Groundwater analytical results are presented on Figure 3, and are summarized in Tables 1 and 2. No hydrocarbon constituents were present in groundwater above laboratory reporting limits.

PURGE AND RINSATE WATER DISPOSAL

Water generated during well sampling and equipment cleaning was pumped into a SECOR truck-mounted water tank. The water was transferred into properly labeled 55-gallon drums and stored on-site. The drummed non-hazardous water is transported quarterly by Belshire Environmental to DeMenno Kerdoon in Compton, California, for disposal.

ATTACHMENTS

Figures

Tables

Attachment A – Field Notes

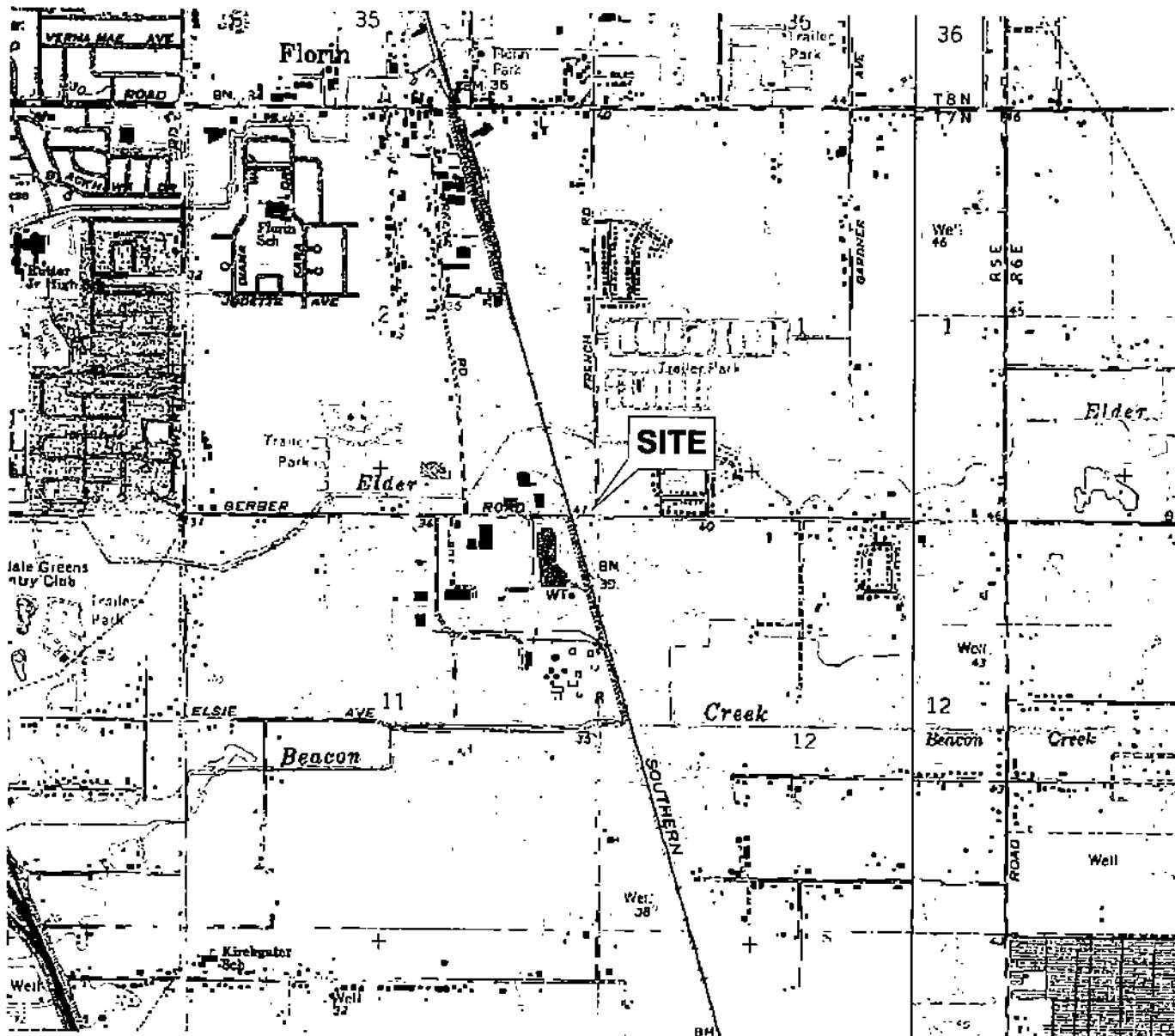
Attachment B – Certified Laboratory Analytical Reports and Chain-of-Custody Documentation

S E C O R

7-Eleven Store #23233
Quarterly Groundwater Monitoring Report (1Q2005)
March 28, 2005
Page 4

cc: Ms. Laura McLean, Sacramento County Environmental Management Department
Ms. Christyl Escarda, Regional Water Quality Control Board, Central Coast Region

FIGURES



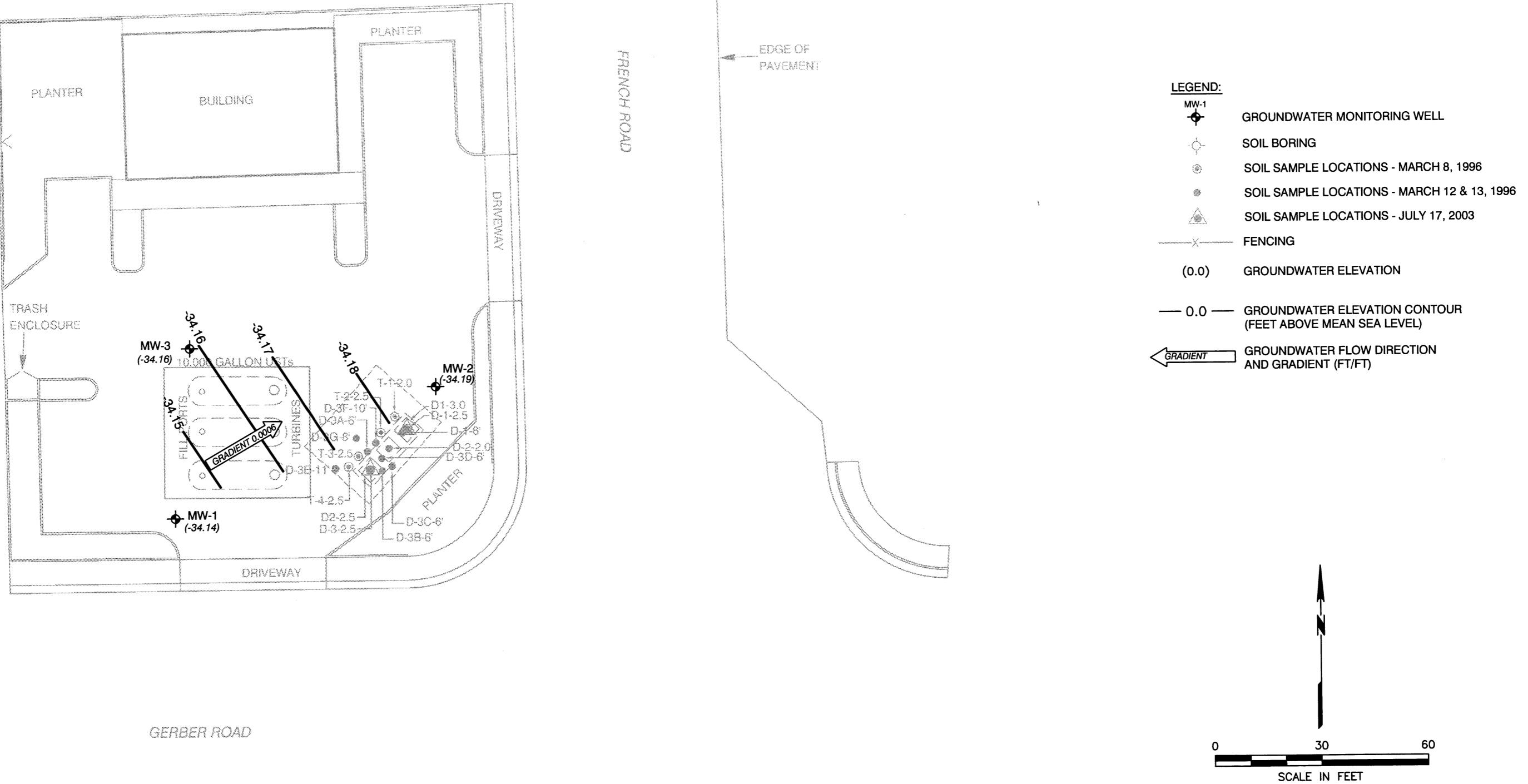
REFERENCE: DELORME TOPOQUAD, CALIFORNIA
NORTH REGION 5

0 2000 4000
SCALE IN FEET

DRAWN	DWR
APPR	JSA
DATE	16/7/04 DWR
JOB NO.	77EL.23233.03.0518

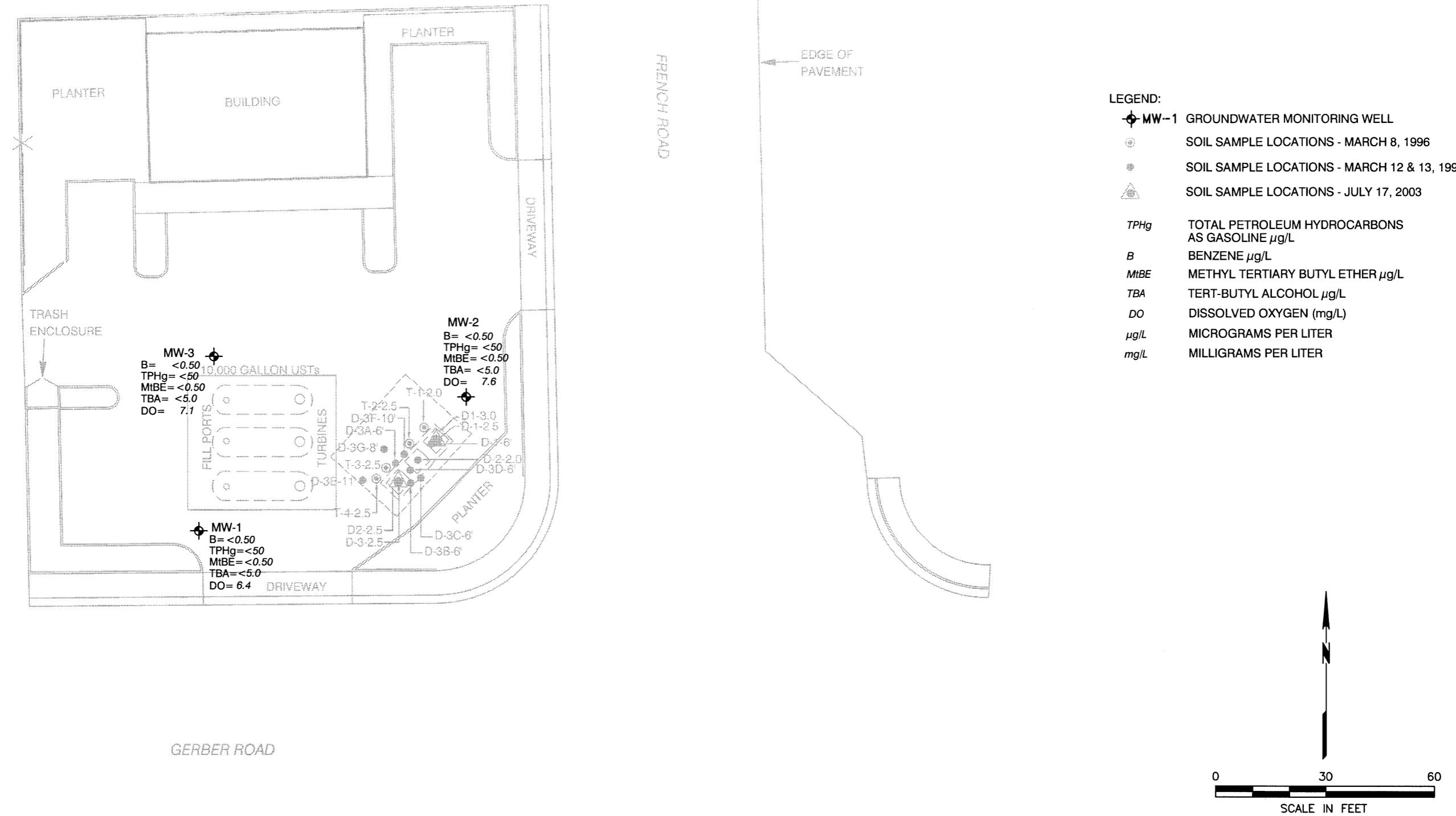
SECOR

FIGURE 1
7-ELEVEN, INC.
FACILITY NO. 23233
8499 GERBER ROAD
SACRAMENTO, CALIFORNIA
SITE LOCATION MAP



REFERENCE: THIS FIGURE IS BASED ON A "SITE PLAN" PROVIDED BY SHAW E & I, INC., DATED NOVEMBER 2002, AND IS INTENDED FOR ILLUSTRATION ONLY.

SECOR 3017 KILGORE ROAD, SUITE 100 RANCHO CORDOVA, CALIFORNIA PHONE: (916) 861-0400/861-0430 (FAX)	FOR: 7-ELEVEN FACILITY NO. 23233 8499 GERBER ROAD SACRAMENTO, CALIFORNIA	GROUNDWATER ELEVATION CONTOUR MAP JANUARY 14, 2005	FIGURE: 2
JOB NUMBER: 77EL.23233.05	DRAWN BY: DWR	CHECKED BY: MD	APPROVED BY: JSA



REFERENCE: THIS FIGURE IS BASED ON A "SITE PLAN" PROVIDED BY SHAW E & I, INC., DATED NOVEMBER 2002, AND IS INTENDED FOR ILLUSTRATION ONLY.

 SECOR 3017 KILGORE ROAD, SUITE 100 RANCHO CORDOVA, CALIFORNIA PHONE: (916) 861-0400/861-0430 (FAX)	FOR: 7-ELEVEN FACILITY NO. 23233 8499 GERBER ROAD SACRAMENTO, CALIFORNIA	GROUNDWATER HYDROCARBON CONCENTRATION MAP JANUARY 14, 2005	FIGURE: 3
JOB NUMBER: 77EL.23233.05	DRAWN BY: DWR	CHECKED BY: MD	APPROVED BY: JSA

S E C O R

TABLES

Table 1
First Quarter 2005 Groundwater Monitoring and Analytical Data

7-Eleven Store #23233
 8499 Gerber Road
 Sacramento, CA

Well ID/ Elevation (TOC)	Date	Benzene (ug/L)	Toluene (ug/L)	Ethy- lbenzene (ug/L)	Xylene (ug/L)	TPHg (ug/L)	MIBE (ug/L)	TBA (ug/L)	DPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	1,2-DCA (ug/L)	DCA (ug/L)	Dissolved Oxygen (mg/L)	DTW (feet)	SPT (feet)	WTE (feet)
MW-1 40.48	01/14/05	<0.50	<0.50	<0.50	<0.50	<50	<50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	6.4	74.62	0.00	-34.14
MW-2 39.44	01/14/05	<0.50	<0.50	<0.50	<0.50	<50	<50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	7.6	73.63	0.00	-34.19
MW-3 40.18	01/14/05	<0.50	<0.50	<0.50	<0.50	<50	<50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	7.1	74.34	0.00	-34.16

Explanation

TPHg = Total petroleum hydrocarbons-as-gasoline
 MIBE = Methyl-tert-butyl ether
 TBA = Terf-butanol
 DPE = Diisopropyl ether
 EtBE = Ethyl-tert-butyl ether

TOC = Top of casing elevation in feet above mean sea level

Notes

Samples analyzed by EPA Method 6260B.

Table 2
Historical Groundwater Monitoring and Analytical Data

7-Eleven Store #23233
8499 Gerber Road
Sacramento, CA

Well ID/ Elevation (TOC)	Date	Benzene ($\mu\text{g/L}$)	Toluene ($\mu\text{g/L}$)	Ethyl- Benzene ($\mu\text{g/L}$)	Xylene ($\mu\text{g/L}$)	TPHg ($\mu\text{g/L}$)	MTBE ($\mu\text{g/L}$)	TBA ($\mu\text{g/L}$)	DIPE ($\mu\text{g/L}$)	EIBE ($\mu\text{g/L}$)	TAME ($\mu\text{g/L}$)	1,2- DCA ($\mu\text{g/L}$)	Dissolved Oxygen (mg/L)	Notes	DTW (feet)	SPT (feet)	WTE (feet)
MW-1	05/20/04	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	6.6	74.84	0.00	-34.36	
	08/27/04	1.0	<0.50	<0.50	<0.50	<5.0	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	2.4	76.01	0.00	-35.53	
	09/17/04	<0.50	<0.50	<0.50	<0.50	-	<0.50	-	-	-	-	-	76.17	0.00	-35.69		
	10/14/04	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	7.5	76.24	0.00	-35.76	
	10/14/04	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	6.4	74.62	0.00	-34.14	
	10/14/04	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	-	-	-	-	
MW-2	05/20/04	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	6.2	73.84	0.00	-34.40	
	08/27/04	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	9.3	75.01	0.00	-35.57	
	10/14/04	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	7.2	75.23	0.00	-35.79	
	10/14/04	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	7.6	73.63	0.00	-34.19	
	10/14/04	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	-	-	-	-	
MW-3	05/20/04	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	6.4	74.58	0.00	-34.40	
	08/27/04	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	7.7	75.74	0.00	-35.56	
	10/14/04	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	6.5	75.95	0.00	-35.77	
	10/14/04	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	7.1	74.34	0.00	-34.16	
	10/14/04	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	-	-	-	-	

Explanation

TPHg = Total petroleum hydrocarbons-as-gasoline

MIBE = Methyl-tert-butyl ether

TBA = Tert-butanol

DIPE = Diisopropyl ether

EIBE = Ethyl-tert-butyl ether

TAME = Tert-amyl-methyl ether

DTW = Depth to water

SPT = Separate-phase hydrocarbon thickness

WTE = Water table elevation

TOC = Top of casing elevation in feet above mean sea level

1,2-DCA = 1,2-dichloroethane

$\mu\text{g/L}$ = micrograms per liter

mg/L = milligrams per liter

-- = Not Sampled/Not Analyzed

Notes

Samples analyzed by EPA Method 8260B.

Table 3
Soil Boring and Well Construction Details

7-Eleven Site No. 23233
 8499 Gerber Road
 Sacramento, California

Well ID	Drill Date	Well Depth (feet bgs)	Diameter (inches)	Screen Top (feet bgs)	Screen Bottom (feet bgs)	Screen Length (feet)	Comments
Groundwater Monitoring Wells							
MW-1	05/06-07/04	85	2	65	85	20	
MW-2	05/06/04	85	2	65	85	20	
MW-3	05/05/04	83	2	63	83	20	
<u>Explanation</u> Wells constructed with polyvinyl-chloride (PVC) casing bgs = Below ground surface							

**ATTACHMENT A
FIELD NOTES**

Quarterly Groundwater Monitoring
Report – First Quarter 2005
7-Eleven Store #23233
8499 Gerber Road
Sacramento, California

JOB NAME:	7-Eleven Store #23233	JOB NUMBER:	77EL.23233.05.0703
SITE ADDRESS:	8499 Gerber Road	START DATE:	
	Sacramento, CA	DATE PREPARED:	10/15/2004
PREPARED FOR:	Peng Vang	PREPARED BY:	Tom Miller

SITE VISITATION REPORT

Name(s) Peng Vang Date: 1-13-05 Did you call in? Yes No _____
Arrival Time: 11:00 Departure Time: _____ Who did you call? Tom Miller
Weather Notations: SUN CLOUDY RAIN SNOW Temperature 50 F

DRUM INVENTORY

<u>1</u>	WATER SOIL	<u>2</u>	CARBON EMPTY	TOTAL OPEN TOP TOTAL BUNG TOP	<u>3</u>
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HEALTH AND SAFETY ASSESSMENT

Traffic - moderate to light. Set up delineator around trucks for visibility & safety. Watch for foot traffic.

CALIBRATION

Ec	Calibration Reading	<u>1413</u>
pH	Two Pt Calibration:	Reading 1 <u>7.0</u> , Reading 2 <u>4.0</u>

DO Calibration

Pre-Calibration reading	<u>10.5</u>	Calibration Reading	<u>11.2</u>	Post Calibration Reading
Agitated Water Readings		Pre M&S:	<u>10.5</u>	Post M&S:

DESCRIPTION OF ACTIVITIES ONSITE AND NOTES

Arrived on site. Check in with store manager. Review HASP. Decor equipment. Locate & open all wells. gauge all wells monitor DTW, DTB. Before purging grab DO reading. Purge well monitor ph, ec, temp. grab samples transfer water to drum on site

JOB NAME:	7-Eleven Store #23233	JOB NUMBER:	77EL.23233.05.0703
SITE ADDRESS:	8499 Gerber Road	START DATE:	
	Sacramento, CA	DATE PREPARED:	10/15/2004
PREPARED FOR:	Peng Vang	PREPARED BY:	Tom Miller

GROUNDWATER GAUGING FORM

MEASURED TO TOC OR GRADE? Top of Casing

WELL ID	DTB	WELL DIA/M	WELL ELEV.	DTW	GAGED DTB	PURGE DTB	QD (gph)	30% RECHG	COMMENTS
MW-1	83	2"		74.62	85.15		6.4		Brewer Hotel well heads leaking; caps or street box repair.
MW-2	85	2"		73.65	84.15		7.4		
MW-3	85	2"		74.54	82.82		7.1		
Estimated Purge Water Volume					0 gallons	0.00 Drums			

SECOR International Inc.

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 7-Eleven Store #23233 PURGED BY: Peng Vang WELL I.D.: MW- /
CLIENT NAME: 7-Eleven, Inc. SAMPLED BY: Peng Vang SAMPLE I.D.: MW- /
LOCATION: 8499 Gerber Road, Sacramento, CA QA SAMPLES: None

DATE PURGED 1-9-05 START (2400hr) 1200 END (2400hr) 1217

DATE SAMPLED _____ SAMPLE TIME (2400hr) 1231

SAMPLE TYPE: Groundwater X Surface Water _____ Treatment Effluent _____ Other _____

CASING DIAMETER: 2" X 3" (0.17) 4" (0.38) 5" (0.67) 6" (1.02) 8" (1.50) Other ()

DEPTH TO BOTTOM (feet) = 85.5 CASING VOLUME (gal) = 2.0

DEPTH TO WATER (feet) = 74.62 CALCULATED PURGE (gal) = 6.0

WATER COLUMN HEIGHT (feet) = 10.53 ACTUAL PURGE (gal) = _____

FIELD MEASUREMENTS

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: 74.6 ft SAMPLE TURBIDITY: Low

SAMPLE TURBIDITY: low

80% RECHARGE: 30 YES NO ANALYSES: BTEX, TPHg, 5 Oxygenates, 1,2-DCA via EPA 8260B

ODOR: sharp SAMPLE VESSEL / PRESERVATIVE: HCL

PURGING EQUIPMENT

<input type="checkbox"/> Bladder Pump	<input type="checkbox"/> Baileyer (Teflon)
<input type="checkbox"/> Centrifugal Pump	<input type="checkbox"/> Baileyer (PVC)
<input checked="" type="checkbox"/> Submersible Pump	<input type="checkbox"/> Baileyer (Stainless Steel)
<input type="checkbox"/> Peristaltic Pump	<input type="checkbox"/> Dedicated

Other:

Pump Depth:

SAMPLING EQUIPMENT

Bladder Pump Bailer (Teflon)
 Centrifugal Pump Bailer (PVC or disposable)
 Submersible Pump Bailer (Stainless Steel)
 Peristaltic Pump Dedicated

Other:

WELL INTEGRITY:

LOCK#: No

REMARKS: *DO = 6.4*

SIGNATURE: P. V.

SECOR International Inc.

PROJECT #: 7-Eleven Store #23233 PURGED BY: Peng Vang WELL I.D.: MW- 2
CLIENT NAME: 7-Eleven, Inc. SAMPLED BY: Peng Vang SAMPLE I.D.: MW- 2
LOCATION: 8499 Gerber Road, Sacramento, CA QA SAMPLES: None

DATE PURGED 1-14-05 START (2400hr) 1240 END (2400hr) 1256

DATE SAMPLED 1-14-05 SAMPLE TIME (2400hr) 1310

SAMPLE TYPE: Groundwater X Surface Water _____ Treatment Effluent _____ Other _____

CASING DIAMETER: 2" X (0.17) 3" (0.38) 4" (0.67) 5" (1.02) 6" (1.50) 8" (2.60) Other ()

DEPTH TO BOTTOM (feet) = 84.45 Casing VOLUME (gal) = 2.0

DEPTH TO WATER (feet) = 73.63 CALCULATED PURGE (gal) = 6.0

WATER COLUMN HEIGHT (feet) = 10.72 ACTUAL PURGE (gal) = 0

FIELD MEASUREMENTS

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: 73.72 FT. DRAINED INFORMATION SAMPLE TURBIDITY: Low

SAMPLE TURBIDITY: *low*

80% RECHARGE: YES NO ANALYSES: BTEX, TPHg, 5 Oxgenates, L2-DCA via EPA 8260B

ODOR: SAMPLE VESSEL / PRESERVATIVE: HCl

PURGING EQUIPMENT

<input type="checkbox"/> Bladder Pump	<input type="checkbox"/> Bailier (Teflon)
<input type="checkbox"/> Centrifugal Pump	<input type="checkbox"/> Bailier (PVC)
<input checked="" type="checkbox"/> Submersible Pump	<input type="checkbox"/> Bailier (Stainless Steel)
<input type="checkbox"/> Peristaltic Pump	<input type="checkbox"/> Dedicated

Other: _____

Pump Depth:

SAMPLING EQUIPMENT

Bladder Pump Bailer (Teflon)
 Centrifugal Pump Bailer (PVC or disposable)
 Submersible Pump Bailer (Stainless Steel)
 Peristaltic Pump Dedicated

Other:

WELL INTEGRITY: 

LOCK#: A) 8

REMARKS: $15 = 3.5$

SIGNATURE: Jay V. Page 1 of 1

SECOR International Inc.

PROJECT #: 7-Eleven Store #23233 PURGED BY: Peng Yang WELL I.D.: MW- 3
CLIENT NAME: 7-Eleven, Inc. SAMPLED BY: Peng Yang SAMPLE I.D.: MW- 3
LOCATION: 8499 Gerber Road, Sacramento, CA QA SAMPLES: None

DATE PURGED 1-14-05 START (2400hr) 1319 END (2400hr) 1334

DATE SAMPLED 1-14-05 SAMPLE TIME (2400hr) 1340

SAMPLE TYPE: Groundwater X Surface Water _____ Treatment Effluent _____ Other _____

CASING DIAMETER: 2" X (0.17) 3" (0.38) 4" (0.67) 5" (1.02) 6" (1.50) 8" (2.60) Other ()
Casing Volume: (gallons per foot)

DEPTH TO BOTTOM (feet) = 82.82 Casing Volume (gal) = 2.0

DEPTH TO WATER (feet) = 74.34 CALCULATED PURGE (gal) = 6,0

WATER COLUMN HEIGHT (feet) = 5.45 ACTUAL PURGE (gal) = 6,0

FIELD MEASUREMENTS

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: 74.41 SAMPLE TURBIDITY: 6.01

SAMPLE TURBIDITY: 60

80% RECHARGE: YES NO ANALYSES: BTEX, TPHg, 5 Oxygenates, 1,2-DCA via EPA 8260B

ODOR: *S* SAMPLE VESSEL / PRESERVATIVE: HCL

PURGING EQUIPMENT

SAMPLING EQUIPMENT

<input type="checkbox"/> Bladder Pump	<input type="checkbox"/> Baileyer (Teflon)
<input type="checkbox"/> Centrifugal Pump	<input type="checkbox"/> Baileyer (PVC)
<input checked="" type="checkbox"/> Submersible Pump	<input type="checkbox"/> Baileyer (Stainless Steel)
<input type="checkbox"/> Peristaltic Pump	<input type="checkbox"/> Dedicated

Bladder Pump Bailer (Teflon)
 Centrifugal Pump Bailer (PVC or disposable)
 Submersible Pump Bailer (Stainless Steel)
 Peristaltic Pump Dedicated

Other:

Other:

Pump Depth:

LOCK#: 64

REMARKS: BD = 71

[View Details](#) | [Edit](#) | [Delete](#)

SIGNATURE: John Page _____ of _____

**ATTACHMENT B
CERTIFIED LABORATORY ANALYTICAL REPORTS
AND CHAIN-OF-CUSTODY DOCUMENTATION**

Quarterly Groundwater Monitoring
Report – First Quarter 2005
7-Eleven Store #23233
8499 Gerber Road
Sacramento, California



Report Number : 41997

Date : 1/20/2005

Debbie Herzog
SECOR International, Inc.
3017 Kilgore Road, Suite 100
Rancho Cordova, CA 95670

Subject : 3 Water Samples
Project Name : 7-Eleven Store #23233
Project Number : 77EL.23233.05

Dear Ms. Herzog,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

A handwritten signature in black ink that reads "Joel Kiff". To the left of the signature, the name "Joel Kiff" is printed in a small, black, sans-serif font.



Report Number : 41997

Date : 1/20/2005

Project Name : 7-Eleven Store #23233

Project Number : 77EL.23233.05

Sample : MW-1

Matrix : Water

Lab Number : 41997-01

Sample Date : 1/14/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	1/19/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	1/19/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	1/19/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	1/19/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	1/19/2005
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	1/19/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	1/19/2005
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	1/19/2005
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	1/19/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	1/19/2005
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	1/19/2005
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	1/19/2005
4-Bromofluorobenzene (Surr)	107		% Recovery	EPA 8260B	1/19/2005
Dibromofluoromethane (Surr)	99.0		% Recovery	EPA 8260B	1/19/2005
1,2-Dichloroethane-d4 (Surr)	104		% Recovery	EPA 8260B	1/19/2005

Approved By:

Joel Kiff



Report Number : 41997

Date : 1/20/2005

Project Name : 7-Eleven Store #23233

Project Number : 77EL.23233.05

Sample : MW-2

Matrix : Water

Lab Number : 41997-02

Sample Date : 1/14/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	1/19/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	1/19/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	1/19/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	1/19/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	1/19/2005
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	1/19/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	1/19/2005
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	1/19/2005
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	1/19/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	1/19/2005
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	1/19/2005
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	1/19/2005
4-Bromofluorobenzene (Surr)	107		% Recovery	EPA 8260B	1/19/2005
Dibromofluoromethane (Surr)	99.6		% Recovery	EPA 8260B	1/19/2005
1,2-Dichloroethane-d4 (Surr)	102		% Recovery	EPA 8260B	1/19/2005

Approved By: Joel Kiff



Report Number : 41997

Date : 1/20/2005

Project Name : 7-Eleven Store #23233

Project Number : 77EL.23233.05

Sample : MW-3

Matrix : Water

Lab Number : 41997-03

Sample Date : 1/14/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	1/19/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	1/19/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	1/19/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	1/19/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	1/19/2005
Dilisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	1/19/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	1/19/2005
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	1/19/2005
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	1/19/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	1/19/2005
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	1/19/2005
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	1/19/2005
4-BromoFluorobenzene (Surr)	106		% Recovery	EPA 8260B	1/19/2005
Dibromofluoromethane (Surr)	98.6		% Recovery	EPA 8260B	1/19/2005
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	EPA 8260B	1/19/2005

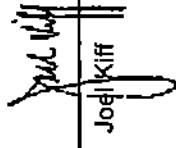
Approved By: Joel Kiff

QC Report : Method Blank Data**Project Name : 7-Eleven Store #23233****Project Number : 77EL.23233.05**

Parameter	Measured Value	Method Reporting Limit	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B 1/19/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B 1/19/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B 1/19/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B 1/19/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B 1/19/2005
Diisopropyl ether (DPE)	< 0.50	0.50	ug/L	EPA 8260B 1/19/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B 1/19/2005
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B 1/19/2005
Tert-Buanol	< 5.0	5.0	ug/L	EPA 8260B 1/19/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B 1/19/2005
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B 1/19/2005
Toluene-d8 (Surrogate)	101	%		EPA 8260B 1/19/2005
4-Bromofluorobenzene (Surrogate)	109	%		EPA 8260B 1/19/2005
Dibromoformmethane (Surrogate)	98.4	%		EPA 8260B 1/19/2005
1,2-Dichloroethane-d4 (Surrogate)	101	%		EPA 8260B 1/19/2005

Report Number : 41997

Date : 1/20/2005



Joe Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 41997

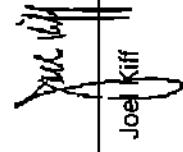
Date : 1/20/2005

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : 7-Eleven Store #23233

Project Number : 77EL.23233.05

Parameter	Spiked Sample Value	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Spiked Sample Percent Recov.	Relative Percent Diff.	Relative Percent Diff. Limit
Benzene	41994-04	<0.50	40.0	40.0	39.6	38.2	ug/L	EPA 8260B	1/19/05	98.9	95.4	3.54	70-130 25
Toluene	41994-04	11	40.0	40.0	54.8	53.0	ug/L	EPA 8260B	1/19/05	109	104	4.19	70-130 25
Tert-Butanol	41994-04	<5.0	200	200	197	201	ug/L	EPA 8260B	1/19/05	98.6	100	1.77	70-130 25
Methyl-t-Butyl Ether	41994-04	8.6	40.0	40.0	46.6	45.6	ug/L	EPA 8260B	1/19/05	95.0	92.7	2.46	70-130 25



KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Approved By: Joe Kiff

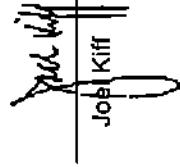
Report Number : 41997

Date : 1/20/2005

QC Report : Laboratory Control Sample (LCS)

Project Name : 7-Eleven Store #23233
Project Number : 77EL.23233.05

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov.	LCS Percent Recov.
Benzene	40.0	ug/L	EPA 8260B	1/19/05	97.1	70-130	
Toluene	40.0	ug/L	EPA 8260B	1/19/05	99.8	70-130	
Tert-Butanol	200	ug/L	EPA 8260B	1/19/05	101	70-130	
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	1/19/05	96.9	70-130	


Joe Kiff

Approved By:
KIFF ANALYTICAL, LLC
2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

41997

Chain of Custody Number:

SECOR Chain-of Custody Record

Field Office: 077 Sacramento
 Address: 3017 Kilkore Road, Suite 100
Rancho Cordova, CA

Additional documents are attached, and are part of this Record.

Job Name: 7-Eleven Store #23233

Location: 8499 Gerber Road

Sacramento, CA

Project # 77EL.23233.05 Task # 0410

Project Manager Jaff Auchterlonie

Laboratory Kiff Analytical

Turnaround Time Standard

Sampler's Name Peng Yang
 Sampler's Signature DJG

V

Sample ID MW-1 Date 1-14-05 Time 1231 Matrix

V

MW-2 Date 1-15-05 Time 0145 Matrix

V

MW-3 Date 1-15-05 Time 1250 Matrix

V

Analysis Request

THG/BBE/EKG Oxygennates

EPA 6280

TPH (Diesel Only)

8015 (modified)

TPH 418.1/WTPH 418.1

602/8020

Aromatic Volatiles

602/8020

Volatile Organics

624/6240 (g=GCMS)

Halogens/Total Volatiles

601/8010

SEM-Water/Organics

625/8270 (GCMS)

1,2-DCA - EPA 8280B

HCl-preserved

V

Comments/
Instructions

Number of Containers
01
02
03

Special Instructions/Comments
5 Oxygenates - MtBE, EtBE, DiPE, TBA, TAME
Global ID #T0606762020 (SIRC)
email EDD to daczalin@secor.com
email lab report to dharzog@secor.com and
tmmiller@secor.com

Reinquished by: Peng Yang Sign Peng Yang Received by: Peng Yang Sample Receipt

Print Peng Yang Total no. of containers:

Company SECOR Chain of custody seals:

Date 1-14-05 Rec'd in good condition/cold:

Date 1-14-05 Conforms to record:

Received by: Tom Miller Client: SECOR

Print Tom Miller Client Contact: Tom Miller

Company Kiff Analytical Inc. Client Phone: (916) 861-0400

Date 1-14-05 Date 01/05 ext. 279